Work Orde		300	B 9930	*993	300*	B 9 30		041	D 4 1 B 9 9	0 1 - 0 4 1 30 0	e 1
Revision ID:	D4101-041 Pre-Flight Ste	p Assembly		Accept	*N900				Setup Start	14.21	
	4/02/13	Start Qty: 2.00 Req'd Qty: 2.00	*2* *2*		Cust Item 1 Customer:	ID:	B 11 &	S 6 0		1 U. 17:	
Reference: Approvals:	Process Pla	ın:	Date: B-O4-0	Tooling: SPC (Y/N):		ate:			Run Start Stop	*NR1* *NR2*	• •
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty		Reject Insp. Number Stamp	
Draw Nbr	Rev	ision Nbr									
D4101	В			·							<u> </u>
*100 *100* Small Fab Small Fab		Memo 1- Asseml	ble as per dwg	0.00				2x			3/07
		. 7.200	a. p ag								
*110 *110* QC Quality Control		QC5- Inspect part com	npleteness to step on W/O	0.00AS 16 0.00 B	loly	<u>.</u>		(VZ	\ \		
120		Identify as per dwe &	Stock Location: 37336	b 0.00							
120 Packaging Packaging	, 4	Memo	5.55 200mm/n <u>-11</u> v (30	0.00				2	. 2002	13-0	7-05 1

NCR:	Yes	/ No † 1.			,	WORK ORDER NON-C	.Oi	NFORI	VIANCE / UPL		QA Closed:	Date	e:
Work Orde	or.			4,		DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part NCR I	٠ ، No					Rework Scrap Use-as-is Work Order Update		!	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descri	ption of work order update		Initial	Act	ion	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Ch	ief Eng	Descr	iption	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved			Date Step Qty Of Non-comormance										
						F	AUI	T CATE	GORY				
Landi		g Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube				General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink			Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled			tolerance ct issing	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled
	-	i .	•	Tube	_	Cut Too Short	<u> </u>	Misrea	d		Power Loss/	Surge	Other
	Ripples in Bend Torque Waves in Extrusion					Drill Holes Drawing		Offset Out of	Calibration				

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish

Folio

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Work Orde		9300		*99?	300*						Page 2
Item ID: Revision ID: Item Name:	_	Step Assembly	d. O. J.	Accept	*N900	040	100)* s	etup Star Sto	14.	
Start Date: Required Date: Reference:	4/02/13 4/19/13	Start Qty: 2.00 Req'd Qty: 2.00	*2* *2*		Cust Item I Customer:	D:					
Approvals:	Process I		Date:	Tooling: SPC (Y/N):		ate:		F	tun Sta Sto	"INF	₹1* ₹2*
Sequence ID/ Work Center II	D	Operation Description OC21- Final Inspection	- Work Order Release	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 QC Quality Control		Memo	, one of the lease	0.00					_17	3/7/8	9

			DQA:	Date:	
ICR:	Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE			

									QA Ciosea:	Date	
Work Orde	er:				DISPOSITION			AGAINST DEI	PARTMENT	PROCESS	
	lo				Rework Scrap Use-as-is Work Order Update		Skid-tube Machining moforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other
							·			·	
Root				1	ption of work order update	Initial		ion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief Eng	Descr	ription	Date	Verification	QC Inspector
Doc/Data	_										
Equip/Tooling		·									
Operator Material										·	
ŀ	-										
Setup Other						·					
Process											
Supplier							·				
Training											
Unapproved			İ								
		. 1	J		F,	AULT CATI	GORY		<u> </u>	<u> </u>	
Landir	ng Gear				General						
	Bending	5			Bend	Grain			Ovalized		Pressure/Forced
	Centre	Not Conce	ntric to	o/s	BOM/Route	Hardw	are		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Inspec	tion Incomplete		Part Incorre	ct	Weld
	Crushed	I/Crimped			Burrs	Instruc	tions Incomplete/I	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination	Maint	enance		Part Moved		
	Heat Treat				Countersink	Mislab	eled		Positioned V	Vrong	_
Inspection Strip in Tube					Cut Too Short	Misrea	ıd		Power Loss/	Surge	Other
Ripples in Bend					Drill Holes	Offset					
Torque Waves in Extrusion				n 🗌	Drawing	Out of	Calibration				
	Turning	Sequence			Finish	Out of	Sequence				
	Wave/T	wist in Tul	эe		Folio ·	Outside Dimensions					

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Picklist Print

April-05-13 1:13:16 PM

Work Order ID:

99300

Parent Item:

D4101-041

Parent Item Name:

Pre-Flight Step Assembly

Start Date: 4/02/13

Required Date: 4/19/13

Start Qty: 2.00

Required Qty: 2.00

Comments:

IPP Rev:A 10.07.07 new issue DD verf:JLM

	REV.B DD verf:J	LM											
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4101-1		Manufactured	No	a game a la game de la		100	Each	5.0000	1	2	4/(,,	/27	hu
Bracket											7-10	JOF/	701
				Location		Loc Qty	<u>L</u> e	oc Code			,		
				GA		5) 			/
				817	30 -	5			_0	<u> </u>			
D4101-3		Manufactured	No			100	Each	2.0000	1	2		(2	107/10
Step									er garanta ika	·· _b)_//	
				Location		Loc Qty	L	oc Code					
				ST237		2) — •			/
D.C.O.			NI.	937	7/8	100	Caala	6.0000					
D4101-5		Manufactured	No			100	Each	0.0000		2		13/	107/0
Spring				* .*		T O(-	-	C-1-	to and the state of			/ /	
				Location		Loc Qty	<u> </u>	oc Code					
				ST094 937	74.1	5			2				
				ST237	41	1			α	$\overline{}$			
				817	736	1					_		/
AN4-22		Purchased	No	017	50	100	Each	22.0000	1			- /	/ /
Bolt		ruichased							9- tag - 17- (-17-		<u> </u>	3/0;	7/04
— - · :				Location		Loc Qty	L	oc Code				/ '	/
				ST358		22				_ /	•	-	
					6669	22				7			

IPP Rev:B 10.12.08 PER DWG

NCR: Y	es / No				WORK ORDER NON-O	CONFOR	MANCE / UP	DATE			
		····					1909 4000		QA Closed:	Date	:
Work Orde	r:				DISPOSITION	,		AGAINST DE	PARTMENT,		
Part N	0				Rework Scrap		Skid-tube Machining	Crosstube Small Fab	1	Water Jet	Engineering Quality
NCR N	0				Use-as-is Work Order Update	Inei	moforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier	Other
Root				Descri	ption of work order update	Initial	Ac	ction	Sign &		
Cause	Date	Step	Qty	(or Non-conformance	Chief En	g Desc	cription	Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling											
Operator						<i></i> '					
Material	al .									-	
Setup								·			
Other											
Process	$H \mid \cdot \mid \cdot \mid$,		
Supplier										ļ	
Training						ł				!	
Unapproved		!									
					F	AULT CAT	EGORY				
Landin	g Gear				General				_		
	Bending				Bend	Grain			Ovalized		Pressure/Forced
	Centre No	ot Conce	ntric to C)/S	BOM/Route	Hardy	vare		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Inspe	ction Incomplete		Part Incorre	ct _	Weld
	Crushed/	Crimped			Burrs	Instru	ctions Incomplete,	/Unclear	Part Lost/M	issing	Wrong Stock Pulled
	Cuffs				Contamination	Main	tenance		Part Moved		
Ī	Heat Treat				Countersink	Misla	beled		Positioned \	Wrong	<u></u>
. [Inspection Strip in Tube				Cut Too Short	Misre	ad		Power Loss,	/Surge	Other
	Ripples in Bend				Drill Holes	Offse	t				
ľ	Torque W	aves in l	Extrusion		Drawing	Out o	f Calibration				
	Turning S	equence			Finish	Out o	f Sequence				
	Wave/Tw	ist in Tul	oe		Folio	Outsi	de Dimensions				

DQA: _____ Date: ___

Page 2

April-05-13 1:13:16 PM

Work Order ID: Parent Item: Parent Item Name:	99300 D4101-041 Pre-Flight Step Asso	embly							Pate: 4/02/13 Qty: 2.00	Required Date: 4/19/13 Required Qty: 2.00
NAS1149D0432J WASHER		Purchased	No			100	Each	196.0000	2	4 53/07/04
				Location		Loc Oty		Loc Code		
				GA	-	1				
					116583	1				
				ST293		192				
					124580	192			4	<u> </u>
				ST294		3				
					116583	3				- // //
AS1149D0463J		Purchased	No			100	Each	8,855.0000	2	4
Vasher									-3-9	7015/04/09
				Location		Loc Qty		Loc Code		
				FP001		21			6	_
					122441	21				
	•			ST007		12			-	
•					121912	12				<u> </u>
				ST294		8822		,		_
	,				124198	656				- 0 /
* 95					124778	8166			_4_	- /// / /
NN310-4		Purchased	No			100	Each	75.0000	1	2 / 3 /52/
1UT										700/01/09
				Location		Loc Qty		Loc Code		
				ST342		75				_ ,,,,,,,,(
					122800	2				= M125752(
					124221	73			-	
1824665-136		Purchased	No			100	Each	80.0000	1	2
Cotter Pins		•								
				Location		Loc Qty		Loc Code		
				ST323		80				_/ .
		·			2421	80			2	
•										

											DQA:	Date	2:
NCR:	Yes	/ No				WORK ORDER NON-	COI	NFORM	MANCE / UPDATE				
								ı			QA Closed:	Date	
Work Ord	er.					DISPOSITION			AGAIN	IST DE	PARTMENT	PROCESS	
	No.					Rework Scrap Use-as-is Work Order Update		f Therm	Skid-tube Crosstu Machining Small I noforming Finish Large Fab Compos	ab ing	1	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descri	ption of work order update	T	Initial	Action		Sign &		
Cause		Date	Step	Qty		or Non-conformance	Ch	nief Eng	Description		Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved													
							FAUI	LT CATE	GORY			· · · · · · · · · · · · · · · · · · ·	
Landi	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Tube					General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short		⊣ `	ion Incomplete ions Incomplete/Unclear enance eled		Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned V	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
		Ripples in	Bend			Drill Holes		Offset					

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

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April-05-13 1:13:16 PM

Work Order ID:	99300					
Parent Item:	D4101-041			Start	Date: 4/02/13	Required Date: 4/19/13
Parent Item Name:	Pre-Flight Step Assembly			Start	Qty: 2.00	Required Qty: 2.00
AN525-832R6 Screw	Purchased	No	100 Each	79.0000	1	2 5/3/04/04
		Location	Loc Qty	Loc Code		
		GA	4			M/25 200
		120560	4			_ ///2000
		ST343	75			= $(2+)$
	•	123831	11			
		124805	64			- 0111
MS21209C0815	Purchased	No	100 Each	179.0000	1	2 / 3 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /
Heli Coil, screw locking,	red					J 5/0 7/04
•		Location	Loc Oty	Loc Code		
		ST319	179			
		124328-	79		_	-
		124525	100			<u></u>

NCR:	Yes	/ No				WORK ORDER NON-	COI	NFOR	MANCE / UPI	DATE					
				'n		r		I .				QA Closed:	Ü	ate:	77
Work Ord	۰.					DISPOSITION				AGAINST D	EF	PARTMENT	PROCESS		
WORK OIG	E1.					Rework	7		Skid-tube	Crosstube	\neg		Water Je	t 🗌	Engineering
Part f	No.					Scrap	1	1	Machining	Small Fab	┨	Pro	d. Eng. Coo	r. 🗌	Quality
						Use-as-is		Thern	noforming	Finishing		Rec/Stor	e/Packagin	g igsqcup	Other
NCR I	No.				·	Work Order Update	_		Large Fab	Composite			Supplie	r[
Root			[Descri	tion of work order update	T	Initial	Act	tion		Sign &			
Cause		Date	Step	Qty	(or Non-conformance	Cr	nief Eng	Desci	ription		Date	Verificati	on	QC Inspector
Doc/Data															
Equip/Tooling	_														
Operator	_														
Material	_											·			
Setup			i L												
Other	-		į												
Process	-														
Supplier	-		1												
Training	\vdash		1												
Unapproved	<u> </u>	<u> </u>	<u> </u>	<u> </u>	l			LT CATE	CORV		اـــــا	l			
Landi	nø (Gear	<u></u>			General	AUI	LICAIL	JOK1						·
	٦	Bending			_	Bend	Г	Grain		ſ		Ovalized			Pressure/Forced
		Centre No	ot Conce	ntric to	o/s	BOM/Route		Hardwa	ire	f	_	Over/Under	tolerance	<u> </u>	Temperature/Cure
	F	Cracks				Broken/Damaged		4	ion Incomplete	f		Part Incorre			Weld
	厂	Crushed/	Crimped			Burrs		-i '	tions Incomplete/	Unclear		Part Lost/M	issing		Wrong Stock Pulled
	Cuffs					Contamination		Mainte	•	F		Part Moved	-	L	
	Heat Treat					Countersink		Mislabe	eled			Positioned V	Vrong		
	Г	Inspectio	n Strip in	Tube		Cut Too Short		Misread	d	Ī		Power Loss/	Surge		Other
	Ripples in Bend					Drill Holes		Offset		_					
		Torque W	Vaves in E	xtrusio	n 🗌	Drawing	wing Out of Calibration								

Out of Sequence

Outside Dimensions

DQA:

Date:

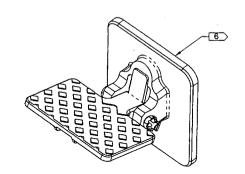
Turning Sequence

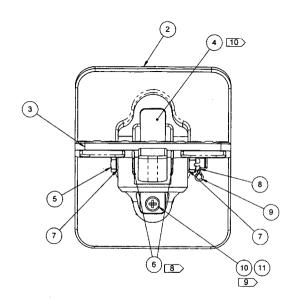
Wave/Twist in Tube

Finish

Folio

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ITEM	QTY -041	PART NUMBER	DESCRIPTION	
1	Х	D4101-041	PRE-FLIGHT STEP ASSEMBLY	
2	1	D4101-1	BRACKET	-
3	1	D4101-3	STEP .	;
4	1	D4101-5	SPRING	
5	1	AN4-22	BOLT	
6	2	NAS1149D0432J	WASHER	
7	2	NAS1149D0463J	WASHER	
8	1	AN310-4	NUT	_
9	1	MS24665-136	COTTER PIN	
10	1	AN525-832R6	SCREW	_
11	1	MS21209C0815	HELICOIL	

99300 pl 13-04-8

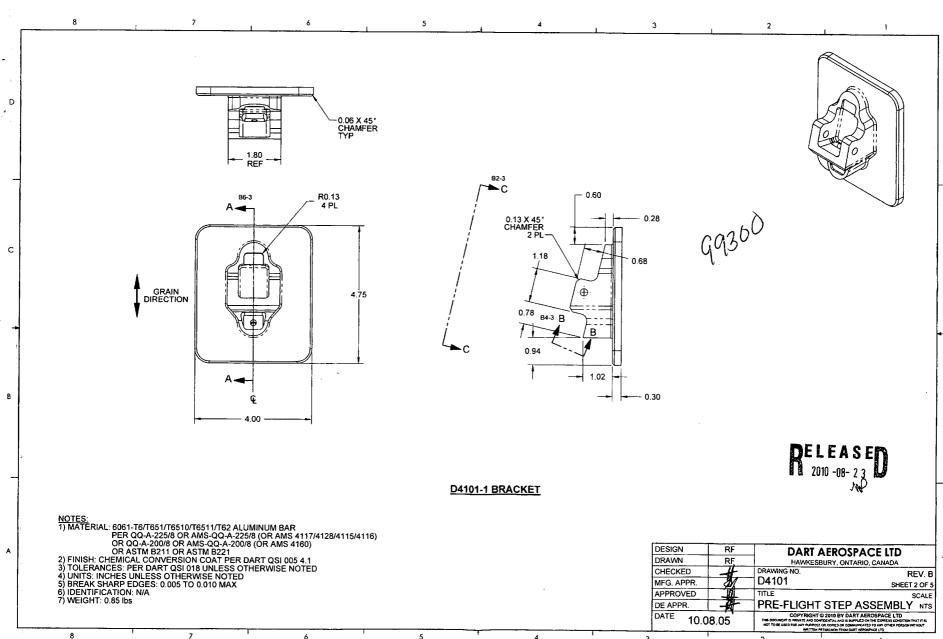
D4101-041 PRE-FLIGHT STEP ASSEMBLY

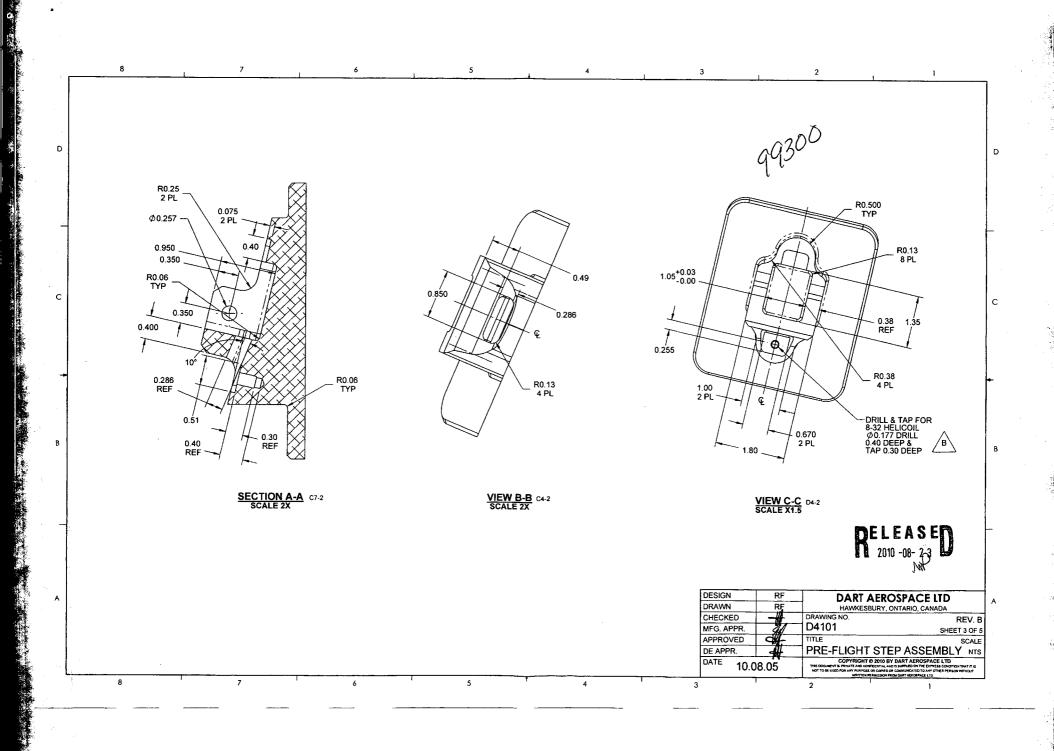


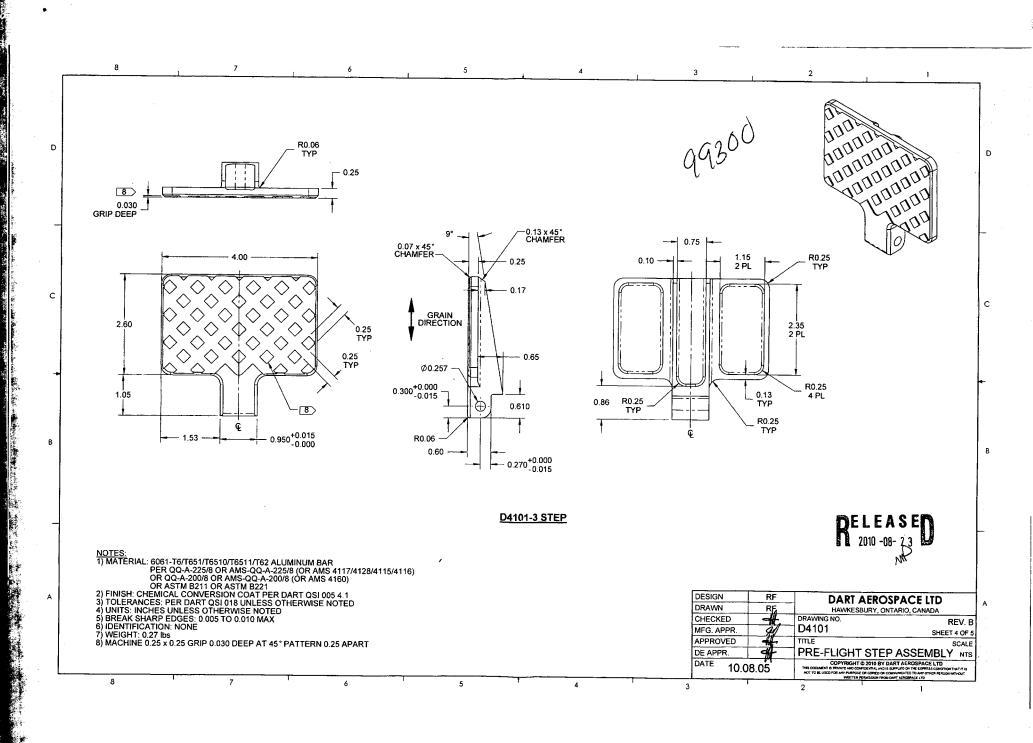
NOTES
NOTES:
1) MATERIAL: N/A
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: NONE

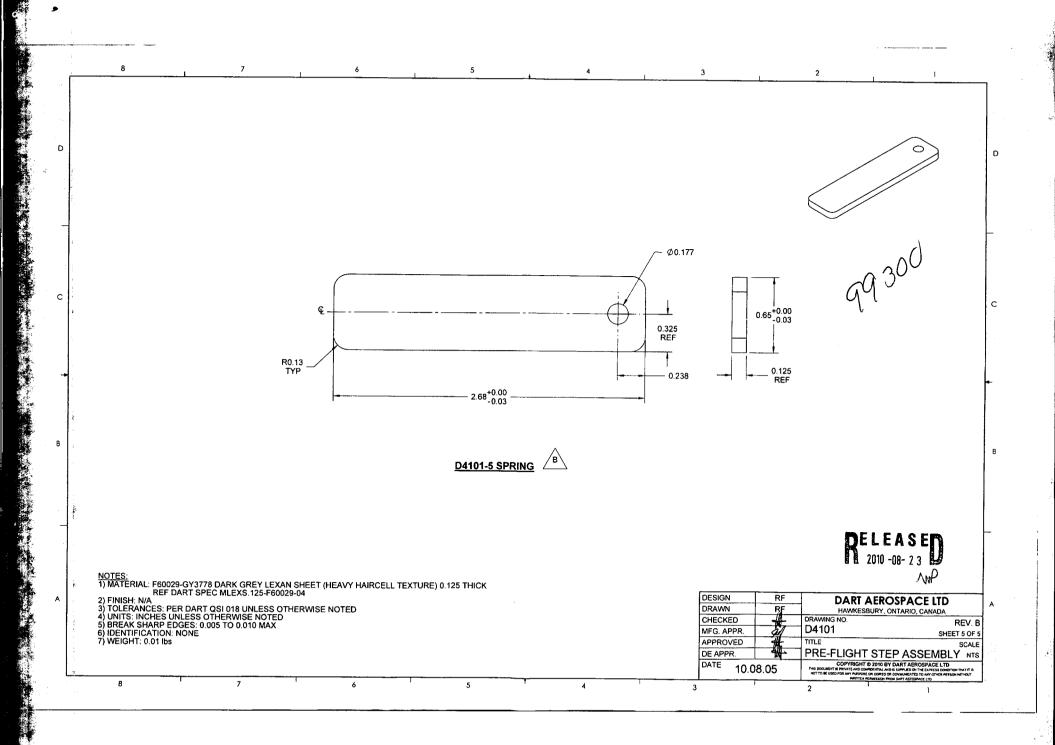
5) BREAK SHARP EDGES: NONE
6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4101-041" USING FINE POINT PERMANENT INK MARKER BACK SURFACE
7) WEIGHT: 1.18 lbs
8) INSTALL NAS1149D0432J WASHER IN BETWEEN STEP AND BRACKET MATING FACES
9) TORQUE AN525832R SCREW TO 15-25 in-lb
10) TEXTURED SIDE TO BOTTOM

В	NAS1149D0432J WAS NAS1149D0416J (ZN D3-1); ADD SCREW AND HELICOIL (ZN D3-1& B1-3); RE-DESIGN RF 10.08.05 D4101-5 (ZN B4-5)			10.08.05	
Α	NEW IS:	NEW ISSUE			10.07.12
REV.			DESCRIPTION	BY	DATE
DESIG	4	RF	DART AEROSE	ACEL	TD
DRAW	١	RF	HAWKESBURY, ONTA		1
CHECK	ED	-#	DRAWING NO.		REV. B
MFG. A	PPR.	2/	D4101		SHEET 1 OF 5
APPRO	VED	#	TITLE		SCALE
DE APP	DE APPR.		PRE-FLIGHT STEP ASSEMBLY NTS		
DATE 10.08.05			COPYRIGHT © 2010 BY DART AEROSPACE LTO THIS DOQUMENT IS RENATE AND CONFIDENTIAL MORE IS UPINED OF THE EXPRESS CONDITION THAT IT IS MOT TO BE URSE FOR ANY PURPOSE OR COMPLE OR COMMUNICATIOS TO ANY OTHER PERSON WITHOUT WRITTEN PER WISSON FROM DARY ARROSPICE LTD.		









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